

Miller, Paul

From: Prince, Ruth <Prince.Ruth@epa.gov>
Sent: Thursday, October 13, 2016 11:45 AM
To: Baggett, Steve; Cargill IV, John G. (DNREC)
Cc: Aceto, Frank; Miller, Paul
Subject: RE: Amtrak Former Fueling Facility ISS Pilot Test SOPs

Hi Steve – unfortunately these are not project-specific SOPs – they are just the available on-line generic methods (which we can access at any time). The problem with this, is that these methods are not specific (e.g., “select a container with these characteristics”) and some offer a series of alternate methods to choose from. In addition, the one we are most interested in – the long-term leachability test – has the same generic problems and is also specific for radioactivity. The only one we can accept is EPA Method 9095A, the paint filter liquids test, because it is simple and contains no choices/alternate methods. For all others, we need the project-specific SOP to review and use for our splits. In addition, have you previously submitted a Method 1668 laboratory SOP? If not, we will need that as well. Please let us know when we can expect to receive these.

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From: Baggett, Steve [mailto:Steve.Baggett@stantec.com]
Sent: Thursday, October 13, 2016 9:13 AM
To: Prince, Ruth <Prince.Ruth@epa.gov>; Cargill IV, John G. (DNREC) <John.Cargill@state.de.us>
Cc: Aceto, Frank <Frank.Aceto@stantec.com>; Miller, Paul <Paul.Miller@stantec.com>
Subject: Amtrak Former Fueling Facility ISS Pilot Test SOPs

Hello Ruth and John,

Per your requests, attached are SOPs for the following:

1. Unconfined compressive strength (ASTM D 1633)
2. Percent moisture (microwave method; ASTM D4643)
3. Paint filter testing (Method 9095A)
4. Liquids release testing (also intended to be Method 9095A)
5. Modified ANS/ANSI 16.1 Long-term Leachability test (ANS/ANSI-16.1). As described in the Pilot Test Work Plan, the modification of the ANS/ANSI 16.1 method pertains to intervals for sampling of the bath water. Bath water testing will take place after 30, 90, 180, and 365 days. The first three samples will be

tested for PCBs using USEPA Method 8082. The Day 365 sample will be analyzed for PCBs using USEPA Method 1668.

6. ASTM 5084 Permeability (ASTM D5084)
7. Testing to assess Delaware temperature change:
 - a. After 120 days of curing, a cylinder will be used to perform seasonal temperature testing for potential free liquid release. The cylinder sample will be placed into a freezer. After a period of 1 week, the cylinder sample will be removed from the freezer and allowed to thaw, at room temperature, for a period of 1 week. The sample will be observed during the thawing period for signs of free liquids. The freeze/thaw testing will be conducted for three cycles.
 - b. Note that stabilized sediments in the field will be covered by a GCL liner, fill and top soil. Therefore the actual field seasonal temperature changes are likely to be less extreme than those to be simulated in the laboratory.

Steve

Steve Baggett, PG

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-----Original Message-----

From: Baggett, Steve

Sent: Tuesday, September 13, 2016 10:51 PM

To: 'Prince, Ruth'; Cargill IV, John G. (DNREC)

Cc: Sirkis, Daniel M NAP; Kelly, Daniel J NAP; Aceto, Frank; Miller, Paul; 'Paul Miller (pmiller@envalliance.com)';

'Stonelake, Benjamin Jr.'; 'Stern, Michael'; Caldwell, Craig; Enzman, Andrew; Cole, Thomas; Schroder, David;

Norman, Rachel; Burns, Jim; Greene, Richard W. (DNREC); Hatton, Thomas; Michael O'Connor

Subject: RE: Request for split samples today

Hello Ruth and John,

We wanted to follow-up on e-mails received earlier today from EPA (below) and DNREC (attached). As requested by USACOE at the site the morning, we prepared 4 extra cylinders of stabilized sediment in their presence.

Per EPA's request below, these cylinders are available for pick-up by USACOE at the site project trailer. It is our understanding that these samples will be analyzed for long-term leachability testing as mentioned below. Tom Hatton (cell: 215-805-2517) should be contacted when the USAOCE arrives at the site and he will be able to provide them with the samples. We have prepared a Chain-of-Custody document to accompany the samples. As we have previously requested, we would like the lab deliverables associated with these samples to be made available to us upon completion of the analyses.

Also, per DNREC's e-mail from earlier today (attached), we will provide SOPs for the analyses listed below (some of which had test procedure references in the Revised Work Plan). Please consider that our treatability testing project staff have been mobilized to the site for sample preparation and field analyses. They will provide the

SOPs as soon as practical after they have completed their site activities and have returned to their home offices. SOPs will be provided for:

1. Unconfined compressive strength
2. Percent moisture
3. Paint filter testing
4. Liquids release testing
5. Modified ANS/ANSI 16.1 Long-term Leachability test
6. ASTM 5084 Permeability
7. Testing to assess Delaware temperature change

As mentioned to DNREC and USACOE today, we have completed all mixing with the Lang tool and are initiating area restoration activities. As I also mentioned to John today, we will provide an update on the status of field activities and an anticipated schedule for the completion of the remaining site activities at the end of this week.

Please contact me with any questions,

Steve

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-----Original Message-----

From: Prince, Ruth [mailto:Prince.Ruth@epa.gov]
Sent: Tuesday, September 13, 2016 9:49 AM
To: Baggett, Steve
Cc: Cargill IV, John G. (DNREC); Sirkis, Daniel M NAP; Kelly, Daniel J NAP
Subject: Request for split samples today

Hi Steve - ACE and the Agencies are requesting that 4 extra cylinders be collected today for our splits. The splits will be analyzed for all of your long-term leachability tests indicated on p. 31-32 of the ISS Work Plan, time intervals still to be selected, and we will be requesting those SOPs shortly.

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-----Original Message-----

From: Sirkis, Daniel M NAP [mailto:Daniel.M.Sirkis@usace.army.mil]

Sent: Tuesday, September 13, 2016 9:39 AM

To: Prince, Ruth <Prince.Ruth@epa.gov>

Cc: Kelly, Daniel J NAP <Daniel.J.Kelly@usace.army.mil>

Subject: Extra cylinders for Amtrak

Ruth,

We would like Stantec to take four extra cylinders of the stabilized soil for long term leachability split samples for the AMTRAK Wilmington site. We would like those samples to be taken today 9/13/16 in the presence of USACE personnel.

Dan

Dan Sirkis, P.G.

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